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Coursera - Creating an AWS EC2 Autoscaling Group using Load Balancer

Generated on December 20, 2023

Summary

Notes	Screenshots	Bookmarks
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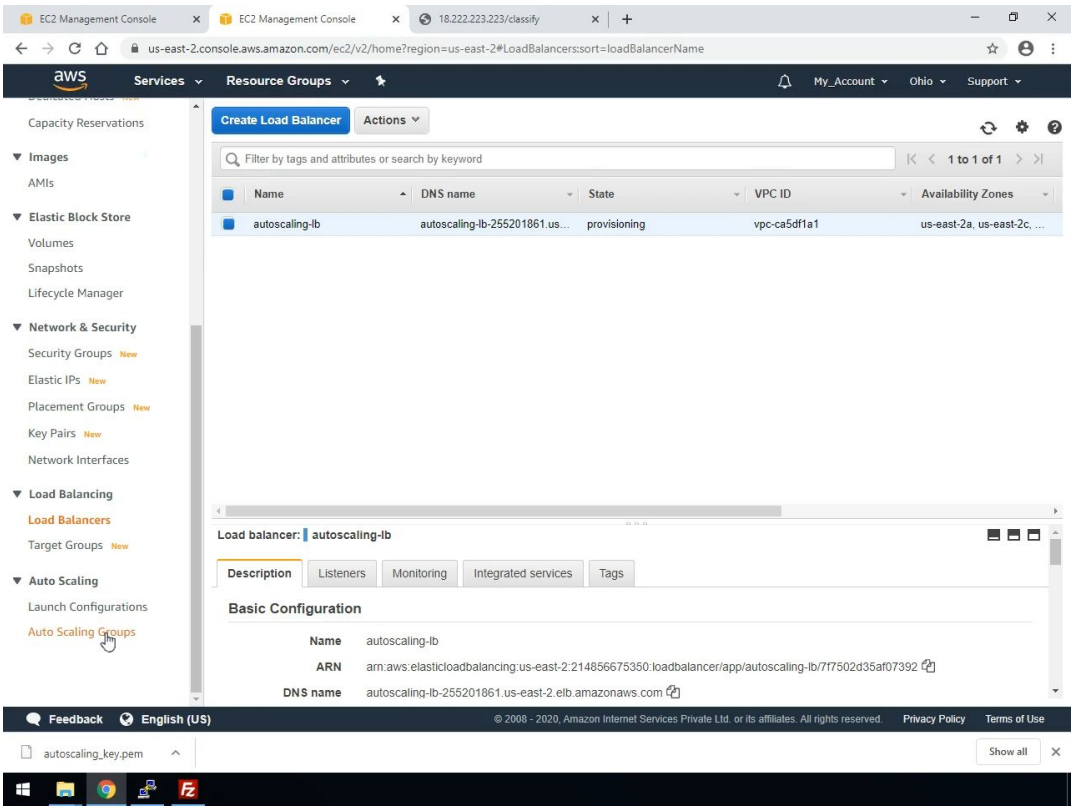
Task 6:

Creating Our first EC2 Auto-Scaling Group

0:03



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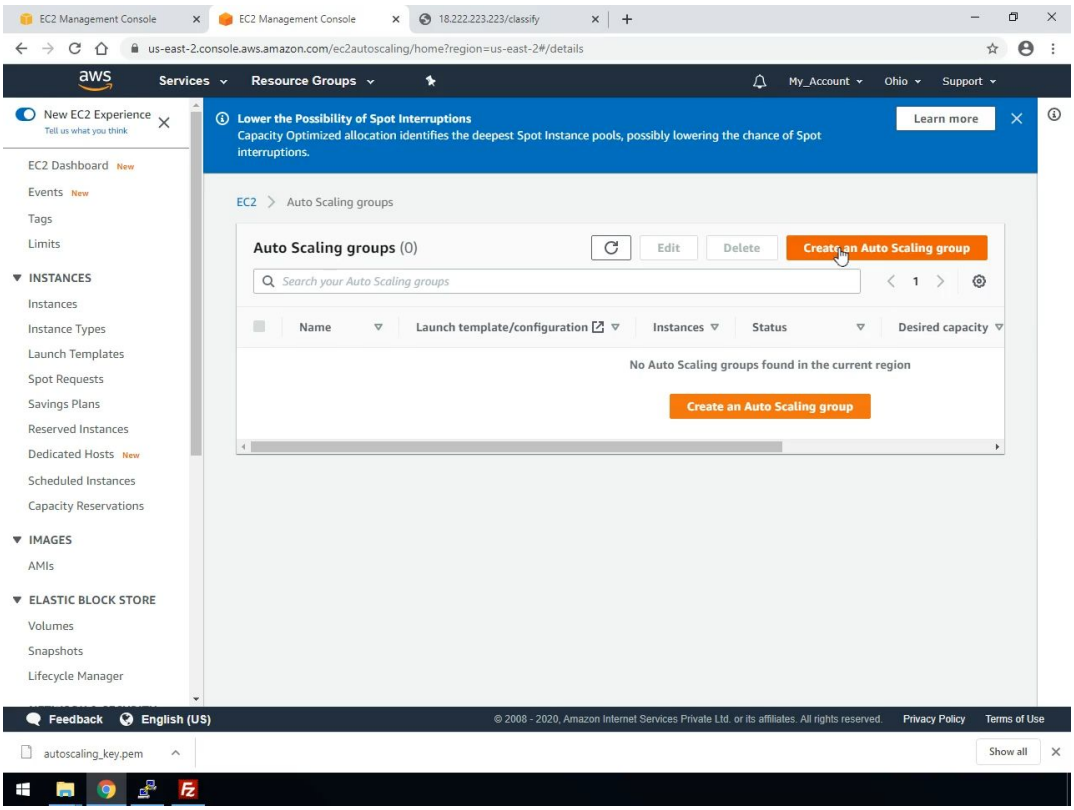
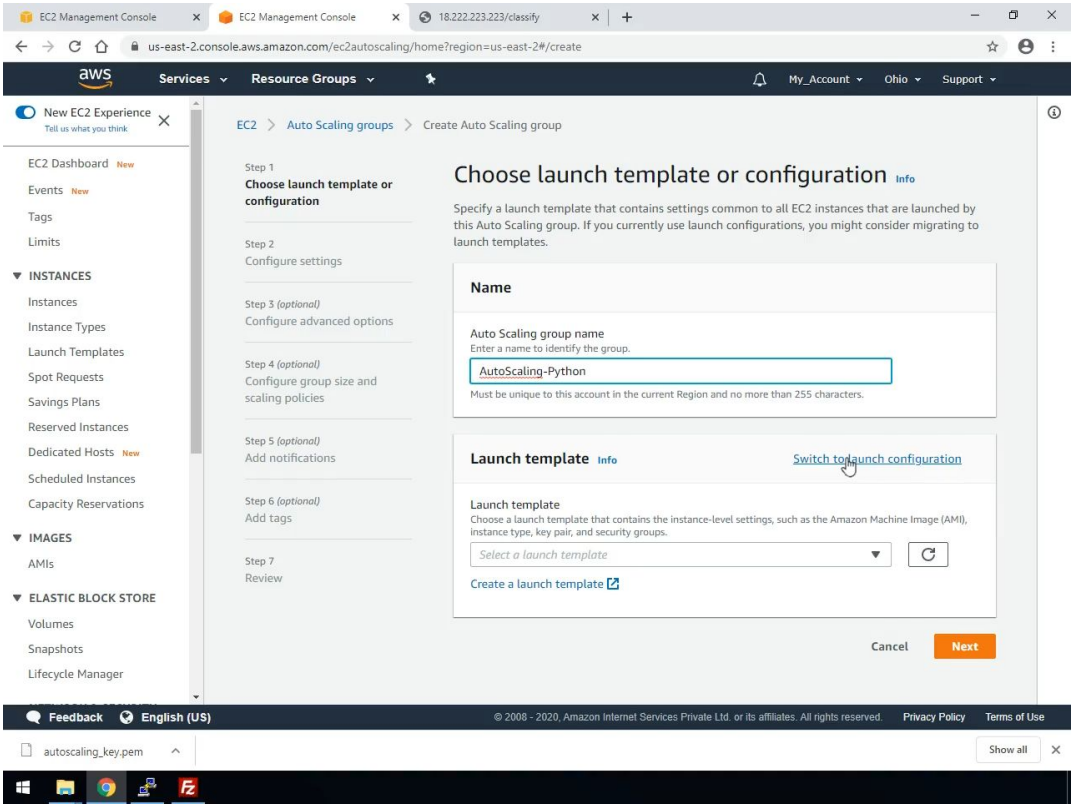


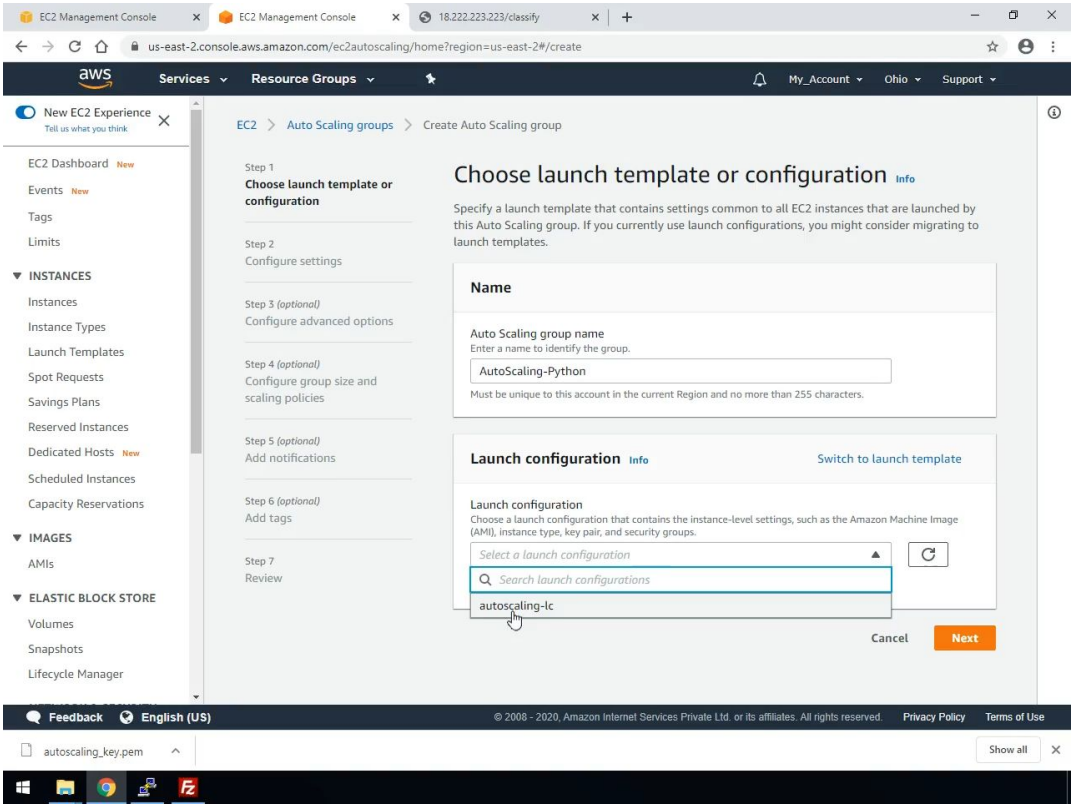
0:20

click on swtich to launch configuration

0:45



0:45


EC2 Management Console
EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/create
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Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Choose launch template or configuration Info
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.
Name
Auto Scaling group name
Enter a name to identify the group.
AutoScaling-Python
Must be unique to this account in the current Region and no more than 255 characters.
Launch configuration Info
Switch to launch template
Launch configuration
Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
Select a launch configuration
Search launch configurations
autoscaling-lc
Cancel
Next
Feedback
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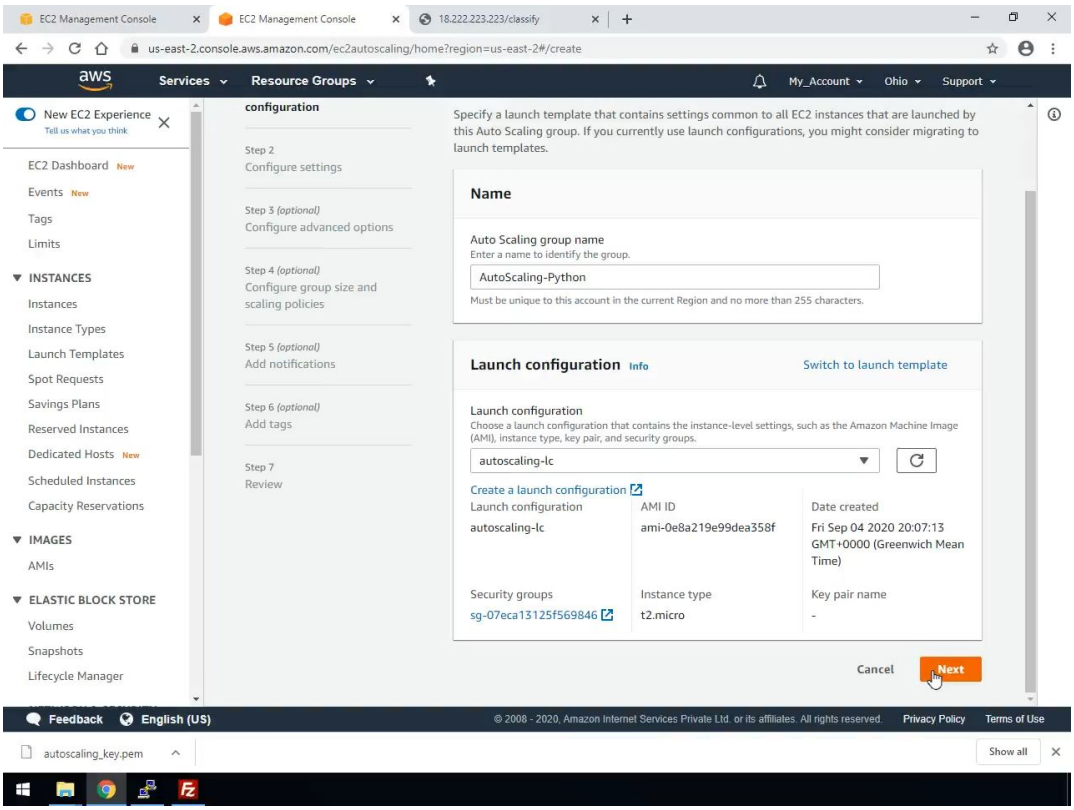
0:52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Step 5 (optional)
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Step 6 (optional)
Add tags
Step 7
Review
Specify a launch template that contains settings common to all EC2 instances that are launched by this Auto Scaling group. If you currently use launch configurations, you might consider migrating to launch templates.
Name
Auto Scaling group name
Enter a name to identify the group.
AutoScaling-Python
Must be unique to this account in the current Region and no more than 255 characters.
Launch configuration Info
Switch to launch template
Launch configuration
Choose a launch configuration that contains the instance-level settings, such as the Amazon Machine Image (AMI), instance type, key pair, and security groups.
autoscaling-lc
Create a launch configuration
Launch configuration
autoscaling-lc
AMI ID
ami-0e8a219e99dea358f
Date created
Fri Sep 04 2020 20:07:13 GMT+0000 (Greenwich Mean Time)
Security groups
sg-07eca13125f569846
Instance type
t2.micro
Key pair name
-
Cancel
Next
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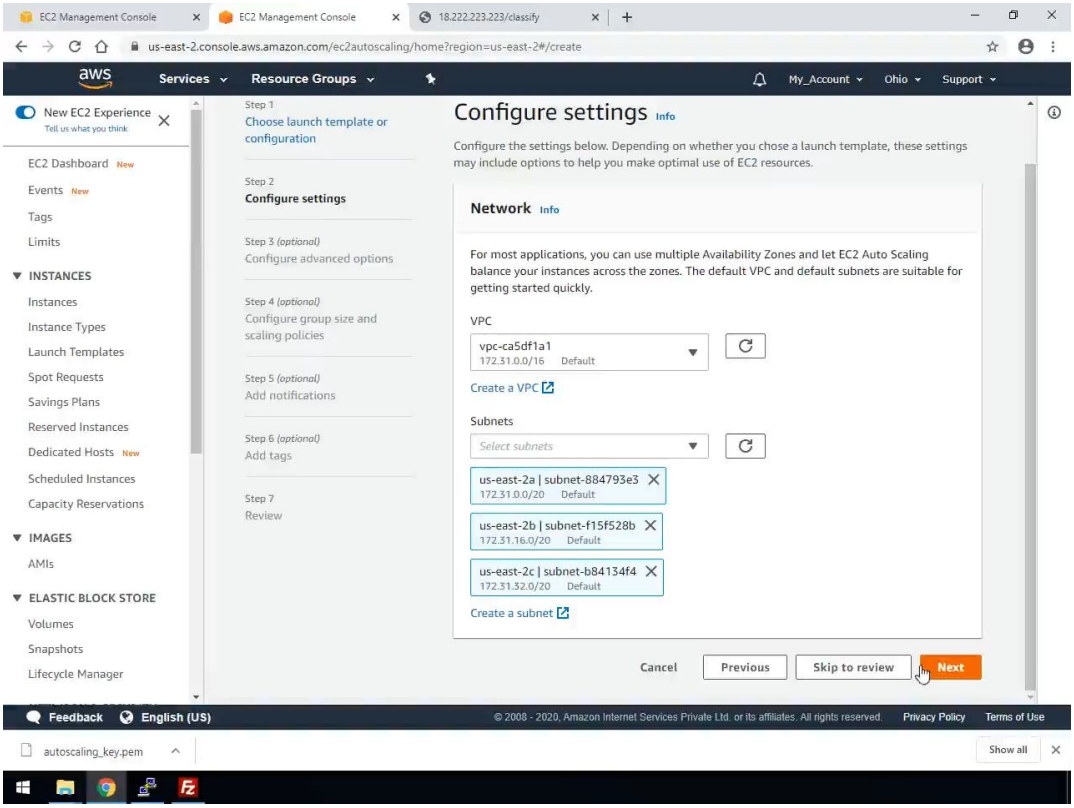
1:00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Add tags
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Review
Configure settings Info
Configure the settings below. Depending on whether you chose a launch template, these settings may include options to help you make optimal use of EC2 resources.
Network Info
For most applications, you can use multiple Availability Zones and let EC2 Auto Scaling balance your instances across the zones. The default VPC and default subnets are suitable for getting started quickly.
VPC
vpc-ca5df1a1
172.31.0.0/16 Default
Create a VPC
Subnets
Select subnets
us-east-2a | subnet-884793e3
172.31.0.0/20 Default
us-east-2b | subnet-f15f528b
172.31.16.0/20 Default
us-east-2c | subnet-b84134f4
172.31.32.0/20 Default
Create a subnet
Cancel
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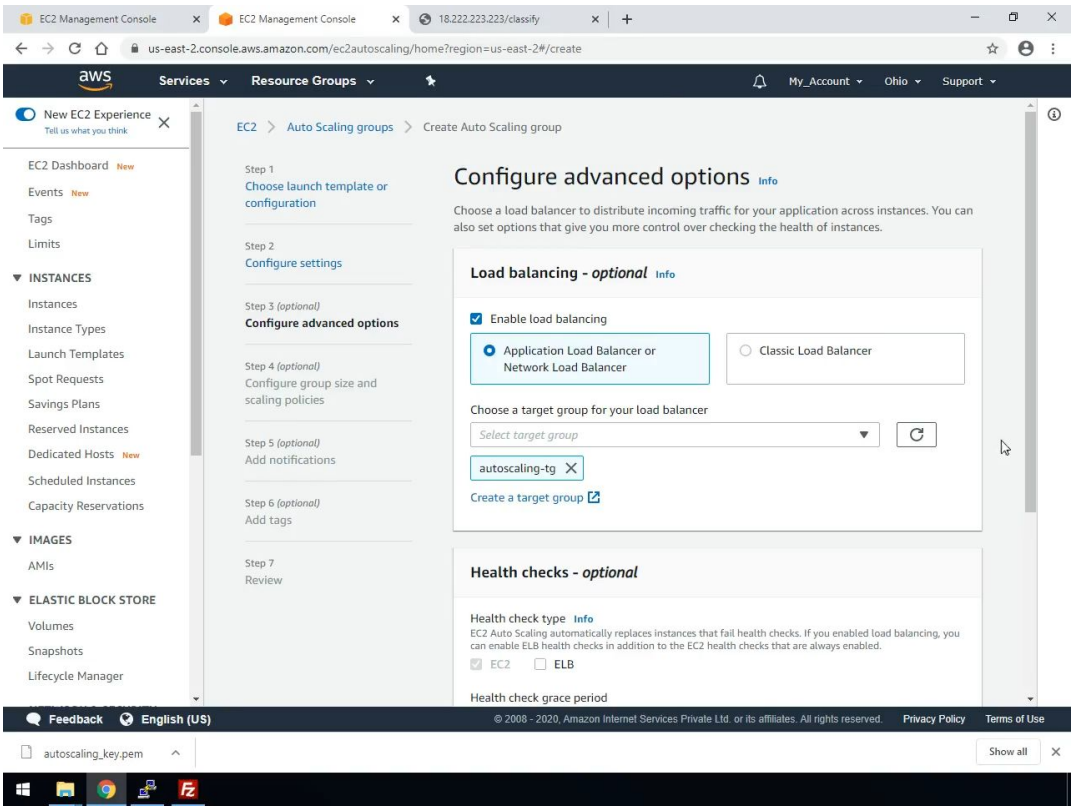
EC2 Management Console
EC2 Management Console
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us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/create
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Add tags
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Review
Configure advanced options Info
Choose a load balancer to distribute incoming traffic for your application across instances. You can also set options that give you more control over checking the health of instances.
Load balancing - optional Info
Enable load balancing
Application Load Balancer or Network Load Balancer
Classic Load Balancer
Choose a target group for your load balancer
Select target group
autoscaling-tg
Create a target group
Health checks - optional
Health check type Info
EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.
EC2
ELB
Health check grace period
Feedback
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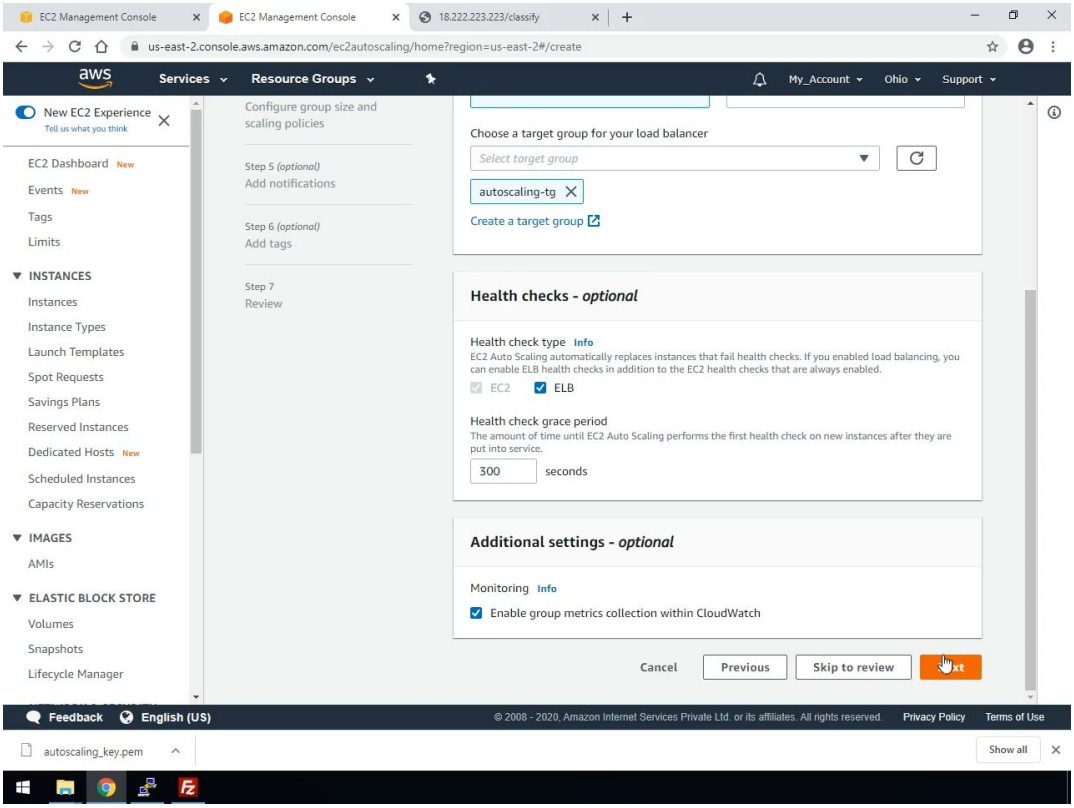
EC2 Management Console
EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/create
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Add notifications
Step 6 (optional)
Add tags
Step 7
Review
Choose a target group for your load balancer
Select target group
autoscaling-tg
Create a target group
Health checks - optional
Health check type Info
EC2 Auto Scaling automatically replaces instances that fail health checks. If you enabled load balancing, you can enable ELB health checks in addition to the EC2 health checks that are always enabled.
EC2
ELB
Health check grace period
The amount of time until EC2 Auto Scaling performs the first health check on new instances after they are put into service.
300
seconds
Additional settings - optional
Monitoring Info
Enable group metrics collection within CloudWatch
Cancel
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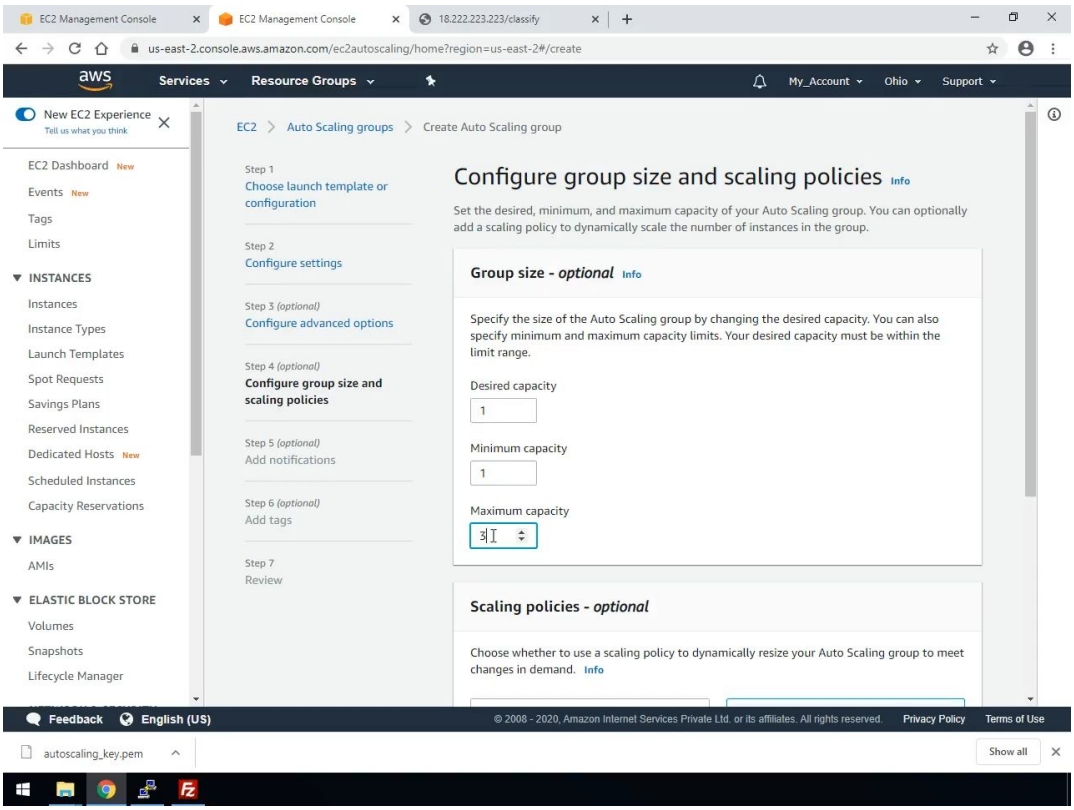
EC2 Management Console
EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/create
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Step 7
Review
Configure group size and scaling policies Info
Set the desired, minimum, and maximum capacity of your Auto Scaling group. You can optionally add a scaling policy to dynamically scale the number of instances in the group.
Group size - optional Info
Specify the size of the Auto Scaling group by changing the desired capacity. You can also specify minimum and maximum capacity limits. Your desired capacity must be within the limit range.
Desired capacity
1
Minimum capacity
1
Maximum capacity
3
Scaling policies - optional
Choose whether to use a scaling policy to dynamically resize your Auto Scaling group to meet changes in demand. Info
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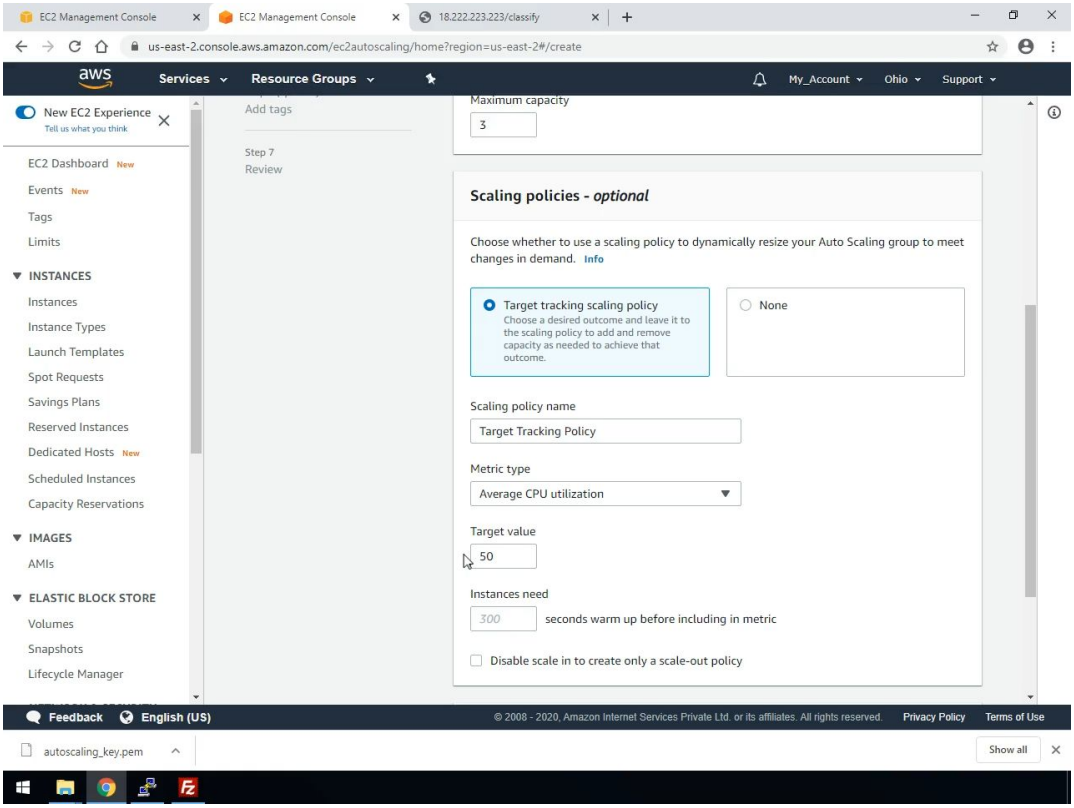
we will go to the maximum capacity of 3 instance

2:52

if the Avg.CPU utilization goes above 50% it will provisioned another EC2 instance

3:41



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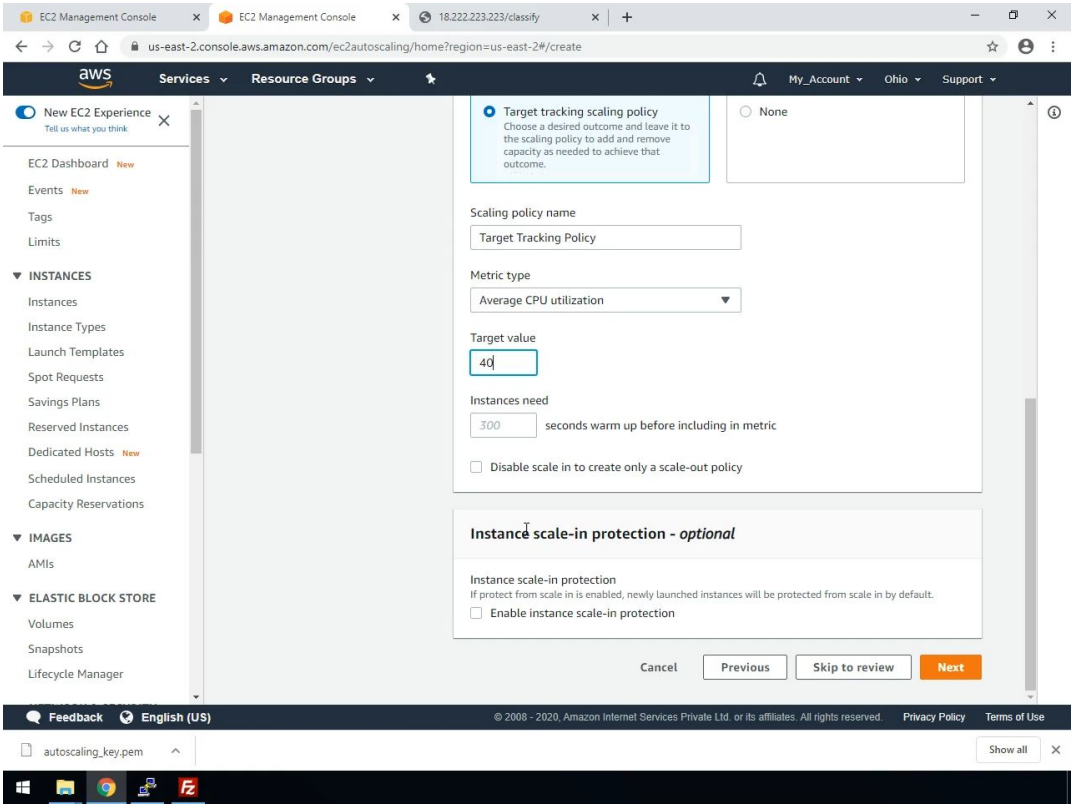
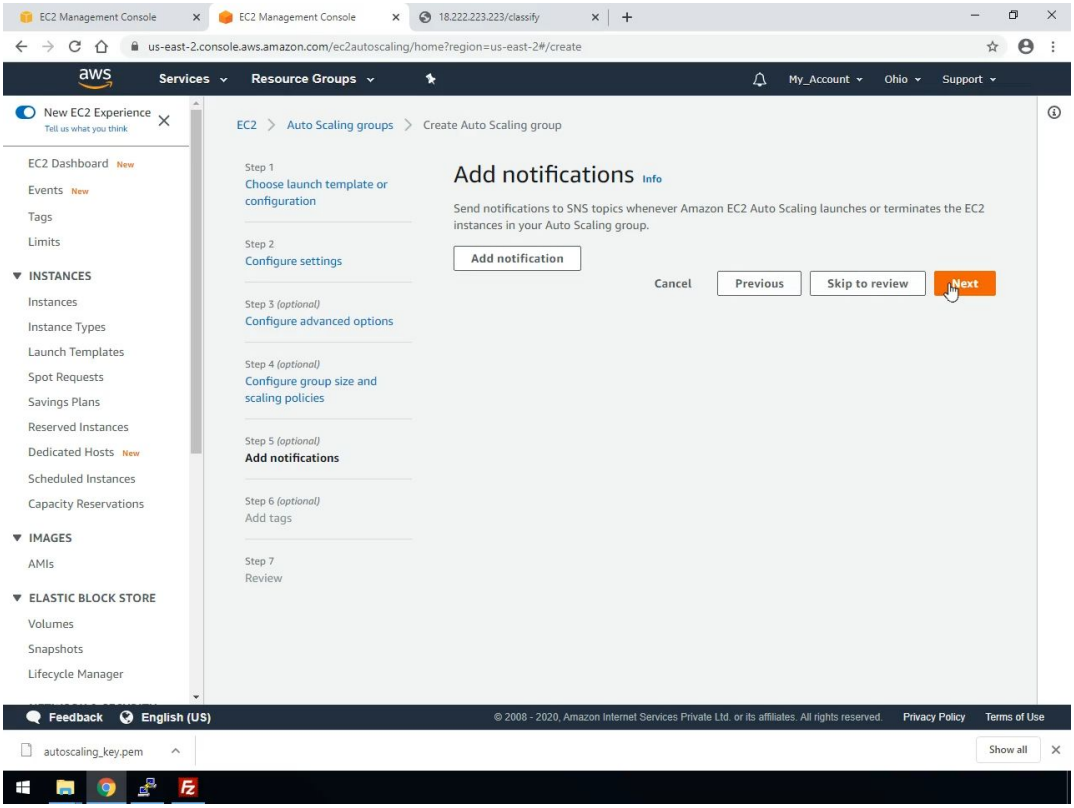


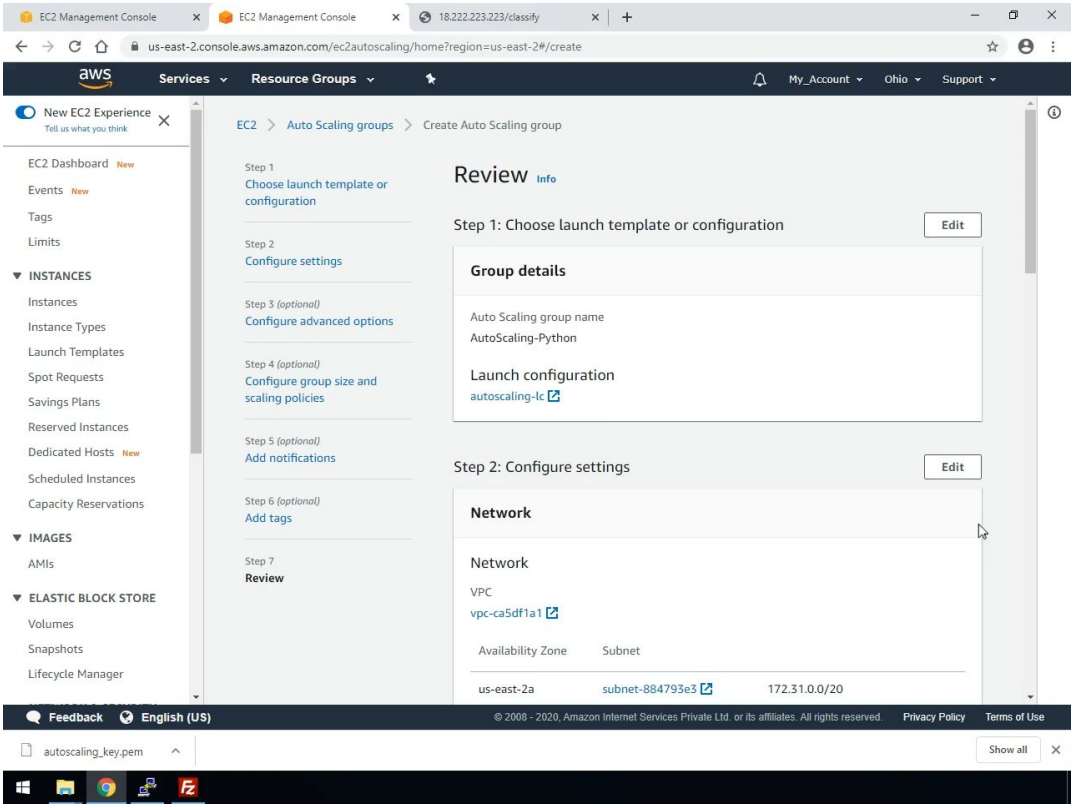
4:15

click next

4:25



4:36


EC2 Management Console
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us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/create
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Group details
Auto Scaling group name
AutoScaling-Python
Launch configuration
autoscaling-lc
Step 2: Configure settings
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Network
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vpc-ca5df1a1
Availability Zone
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subnet-884793e3
172.31.0.0/20
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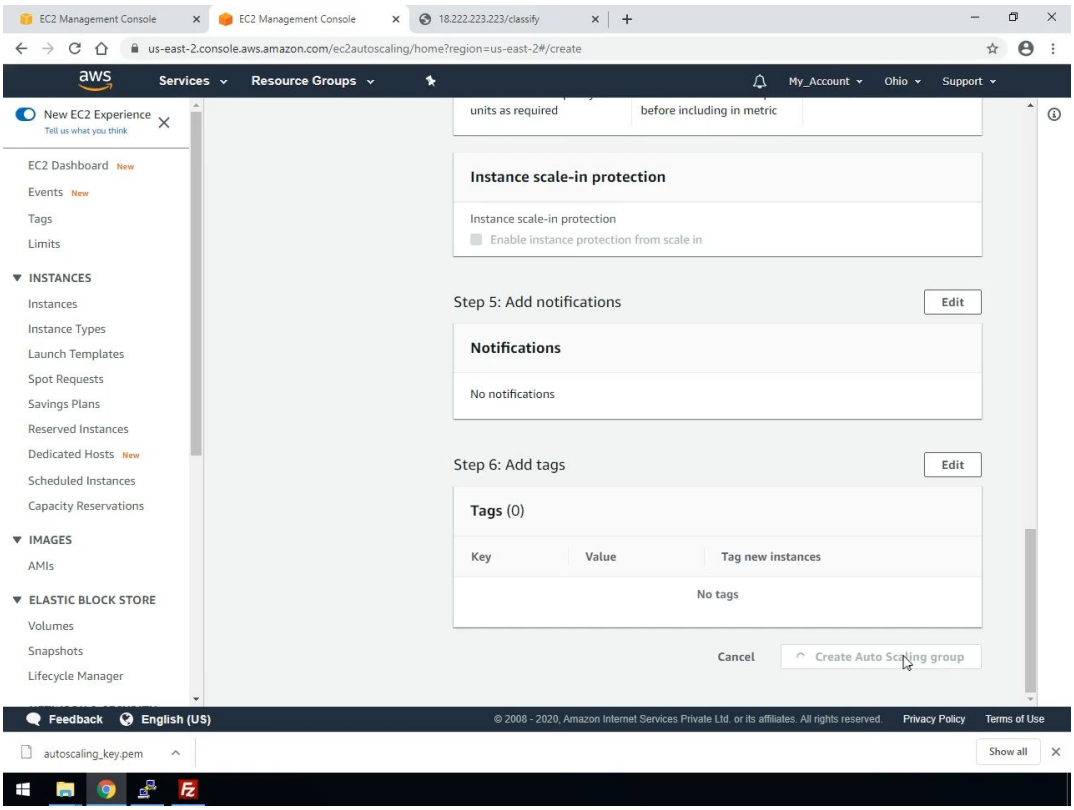
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units as required
before including in metric
Instance scale-in protection
Instance scale-in protection
Enable instance protection from scale in
Step 5: Add notifications
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Notifications
No notifications
Step 6: Add tags
Edit
Tags (0)
Key
Value
Tag new instances
No tags
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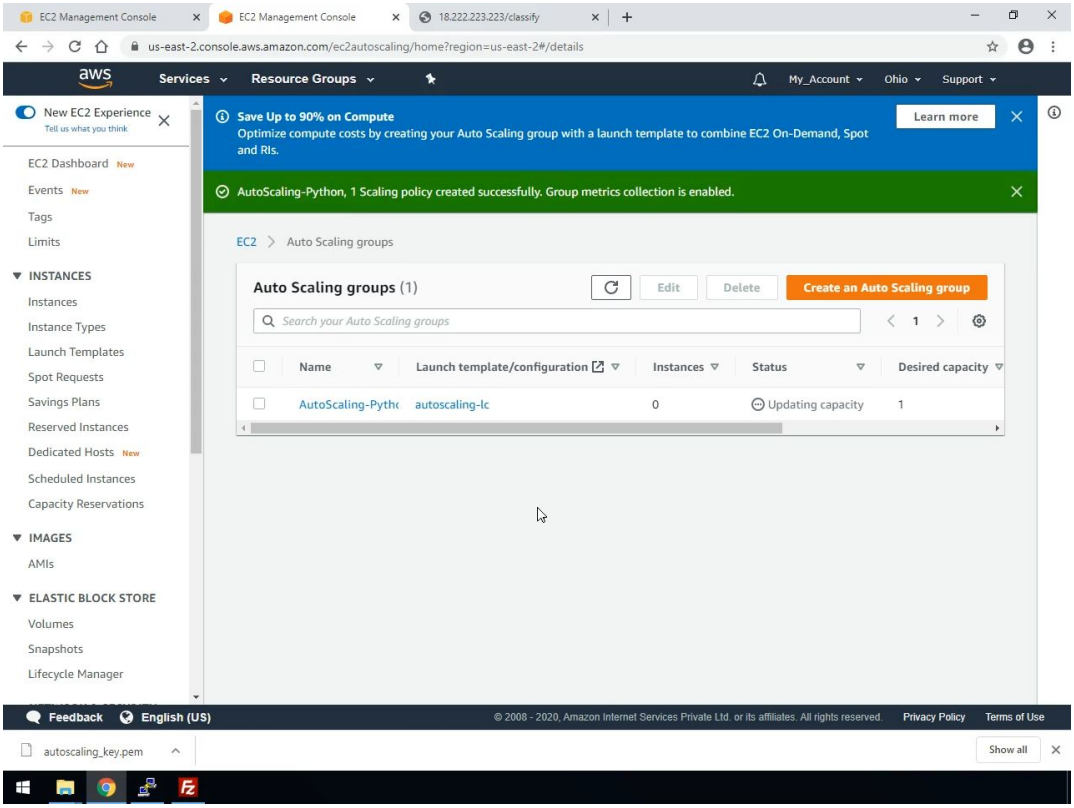
EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2autoscaling/home?region=us-east-2#/details
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Save Up to 90% on Compute
Optimize compute costs by creating your Auto Scaling group with a launch template to combine EC2 On-Demand, Spot and RIs.
Learn more
AutoScaling-Python, 1 Scaling policy created successfully. Group metrics collection is enabled.
EC2 > Auto Scaling groups
Auto Scaling groups (1)
Edit
Delete
Create an Auto Scaling group
Search your Auto Scaling groups
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0
Updating capacity
1
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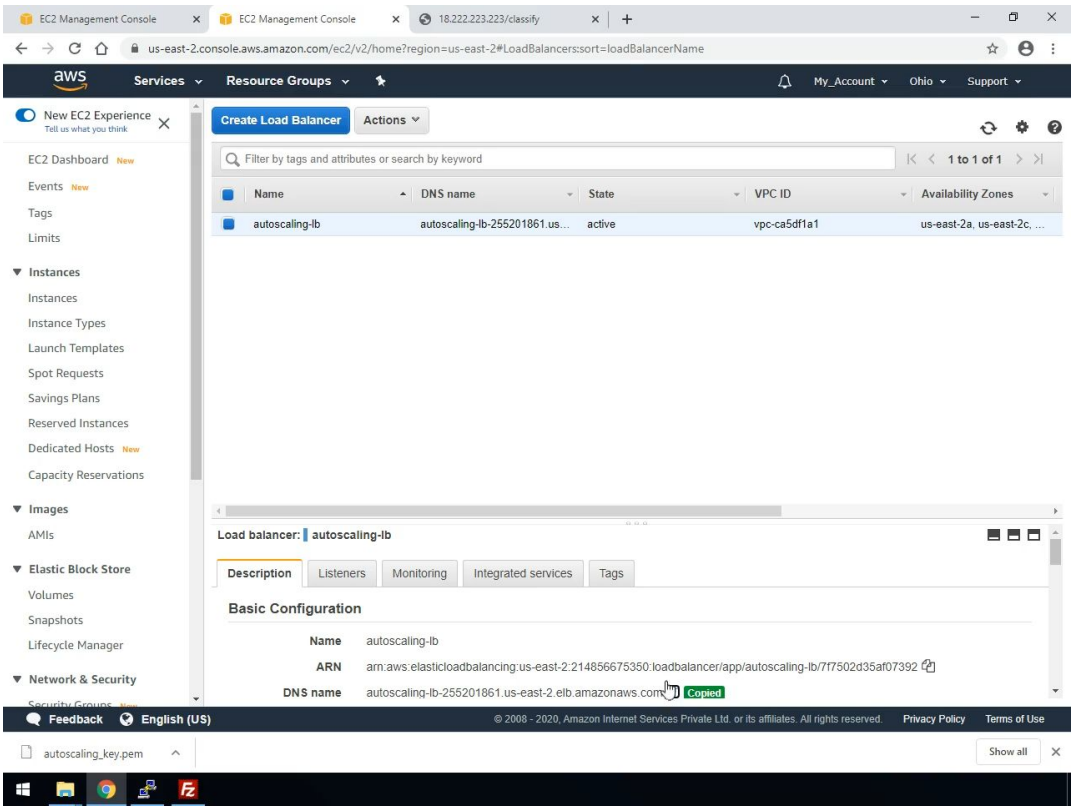
EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LoadBalancers:sort=loadBalancerName
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vpc-ca5df1a1
us-east-2a, us-east-2c, ...
Load balancer: autoscaling-lb
Description
Listeners
Monitoring
Integrated services
Tags
Basic Configuration
Name
autoscaling-lb
ARN
arn:aws:elasticloadbalancing:us-east-2:214856675350:loadbalancer/app/autoscaling-lb/7f7502d35af07392
DNS name
autoscaling-lb-255201861.us-east-2.elb.amazonaws.com
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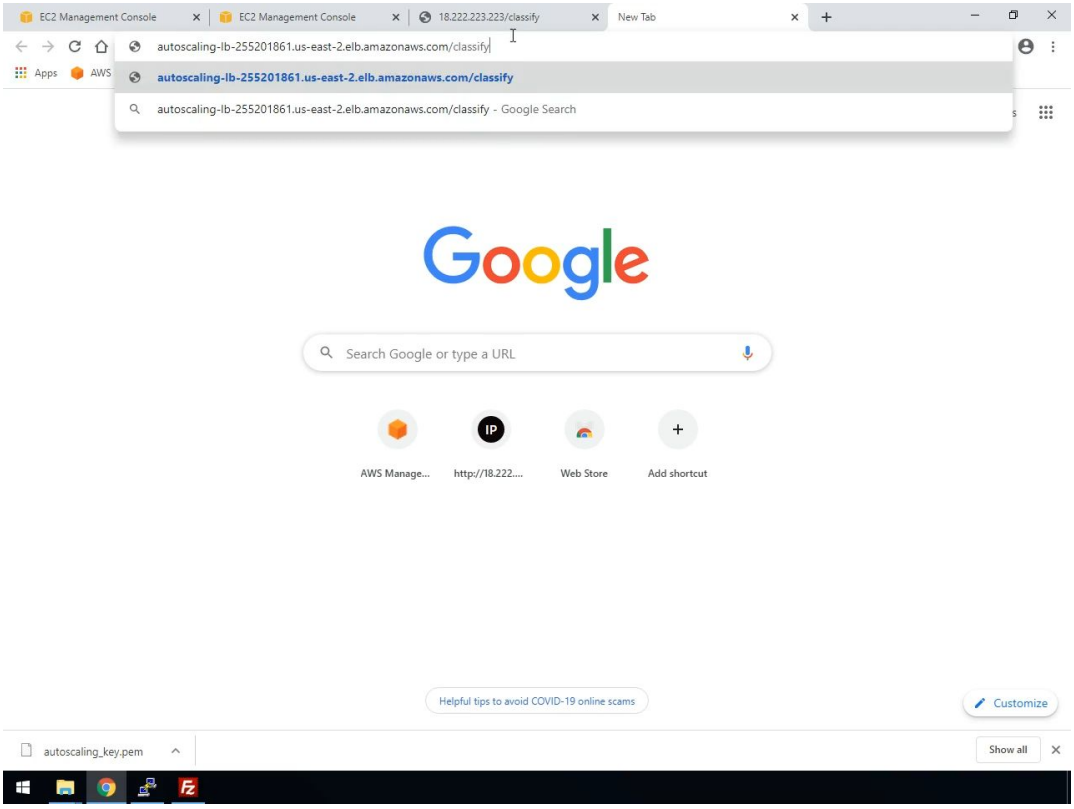
EC2 Management Console
EC2 Management Console
18.222.223.223/classify
New Tab
autoscaling-lb-255201861.us-east-2.elb.amazonaws.com/classify
Apps
AWS
autoscaling-lb-255201861.us-east-2.elb.amazonaws.com/classify
autoscaling-lb-255201861.us-east-2.elb.amazonaws.com/classify - Google Search
Google
Search Google or type a URL
AWS Manage...
http://18.222....
Web Store
Add shortcut
Helpful tips to avoid COVID-19 online scams
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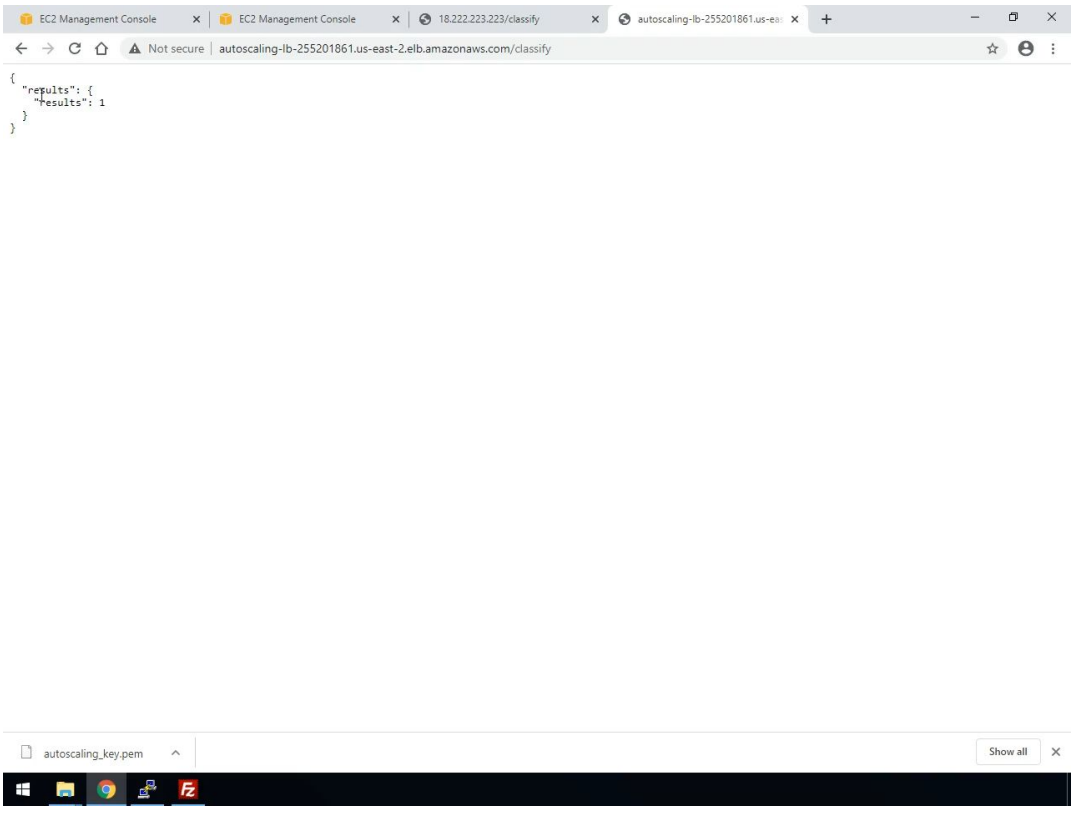
EC2 Management Console
EC2 Management Console
18.222.223.223/classify
autoscaling-lb-255201861.us-ea
Not secure
autoscaling-lb-255201861.us-east-2.elb.amazonaws.com/classify
{
"results": {
"results": 1
}
}
autoscaling_key.pem
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our auto scaling group has been mapped successfully

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